

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD 273 AND RISING SUN TOWN CENTER IN CECIL COUNTY. MD 273 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

AN EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE INSTALLED AT THE INTERSECTION. THE CONTROLLER WILL OPERATE AS A FOUR PHASE FULL-TRAFFIC-ACTUATED CONTROLLER WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE SOUTH LEG OF THE INTERSECTION.

CONTACT MR. JIM LAMPE AT (703) 293-2302 FOR VIDEO DETECTION EQUIPMENT REQUIREMENTS.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR


<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	4 CY	TEST PIT EXCAVATION
5001	1220 LF	FURNISH AND INSTALL YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
5002	630 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5003	120 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5004	90 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5007	1380 LF	REMOVE EXISTING PAVEMENT MARKINGS
8001	8 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	2 EA	FURNISH AND INSTALL 10 FT BREAKAWAY PEDESTAL POLE
8016	2 EA	FURNISH AND INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
8021	480 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	30 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	230 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8025	60 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
8027	20 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8028	130 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
8033	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	4 EA	FURNISH AND INSTALL GROUND ROD - 3/4" X 10'
8040	900 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	60 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8042	300 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
8043	300 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8044	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	340 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8048	220 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	45 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN/THWN
8051	62 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 6 IN.
8066	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
8079	1 EA	FURNISH AND INSTALL MAST ARM POLE AND 70 FT. MAST ARM
----	6 EA	FURNISH AND INSTALL 12 IN.. ONE-WAY, THREE- SECTION (R,Y,G) VEHICLE TRAFFIC SIGNAL HEAD - MAST ARM MOUNT
----	2 EA	FURNISH AND INSTALL W3-3 SIGN (36 IN. X 36 IN.) WITH NEW PANEL GROUND MOUNT SIGNAL HEAD - MAST ARM MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
----	2 EA	FURNISH AND INSTALL 8 IN., ONE-WAY, THREE-SECTION (R,Y,G) VEHICLE TRAFFIC SIGNAL HEAD - MAST ARM MOUNT
----	2 EA	FURNISH AND INSTALL R3-7R SIGN (30 IN. X 30 IN.) GROUND MOUNT
----	2 EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND SIGN
----	1 EA	FURNISH AND INSTALL POLE MOUNTED CABINET AND CONTROLLER
----	1 EA	FURNISH AND INSTALL FOUR CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
----	2 EA	FURNISH AND INSTALL 12 IN., ONE-WAY, TWO-SECTION (WALK,DON'T WALK) PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
----	1 EA	FURNISH AND INSTALL R3-5R SIGN (30 IN. X 36 IN.) MAST ARM MOUNT
----	1 EA	FURNISH AND INSTALL TRAFICON VIDEO DETECTION
----	2 EA	INSTALL SHA STANDARD SIDEWALK RAMP
----	100 LF	FURNISH AND INSTALL COAX CABLE

A-B	MICRO-LOOP PROBE
C-D	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
E-F	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G-H	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
I-L	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
M-P	-7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
Q	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
R	COAX CABLE
LW	LOOP WIRE (NO. 14 A.W.G.)
PS	PROPOSED ELECTRIC SERVICE
MI	MICRO-LOOP PROBE

PHASE 2 & 6	G	G	G	G	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4	R	R	R	R	G	G	G	G	DW	DW
4 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 ALT. & 8	R	R	R	R	G	G	G	G	WK	WK
PED. CLEAR	R	R	R	R	G	G	G	G	FL/DW	FL/DW
4 ALT. & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

	<b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b> <i>Office of Traffic &amp; Safety</i> <b>TRAFFIC ENGINEERING DESIGN DIVISION</b> <b>GENERAL INFORMATION SHEET</b> <b>MD 273 AND</b> <b>THE RISING SUN SHOPPING CENTER</b>		
	DRAWN BY: <u>T.M.Z</u>	F.A.P. NO. <u>                    </u>	TS NO. <u>4042 GI-</u>
	CHECKED BY: <u>K.W.S</u>	S.H.A. NO. <u>                    </u>	SHEET NO.
	SCALE: <u>NONE</u>	COUNTY: <u>CECIL</u>	
DATE: <u>10-3-00</u>	LOG MILE: <u>07027302.10</u>	T.I.M.S. NO. <u>E081</u>	2 OF 3